BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of the Work	:	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
Kodigehalli Sub Division,
BBMP, Bangalore.

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QUALITY CONTROL REPORTS FOR

WET MIX MACADAM (WMM)

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/Gradation/2014-15

23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **25600**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	980	980	3.8	96.2	95-100
22.4	6135	7115	27.8	72.2	60-80
11.2	5270	12385	48.4	51.6	40-60
4.75	4525	16910	66.1	33.9	25-40
2.36	3360	20270	79.2	20.8	15-30
0.600	2675	22945	89.6	10.4	8-22
0.075	2380	25325	98.9	1.1	0-8

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/Gradation/2014-15

23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **25800**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	1015	1015	3.9	96.1	95-100
22.4	5980	6995	27.1	72.9	60-80
11.2	5745	12740	49.4	50.6	40-60
4.75	4365	17105	66.3	33.7	25-40
2.36	3780	20885	80.9	19.1	15-30
0.600	2145	23030	89.3	10.7	8-22
0.075	2395	25425	98.5	1.5	0-8

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23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25440

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	995	995	3.9	96.1	95-100
22.4	6130	7125	28.0	72.0	60-80
11.2	5785	12910	50.7	49.3	40-60
4.75	4595	17505	68.8	31.2	25-40
2.36	3210	20715	81.4	18.6	15-30
0.600	2025	22740	89.4	10.6	8-22
0.075	2185	24925	98.0	2.0	0-8

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23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25080

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	990	990	3.9	96.1	95-100
22.4	6135	7125	28.4	71.6	60-80
11.2	4745	11870	47.3	52.7	40-60
4.75	4720	16590	66.1	33.9	25-40
2.36	3560	20150	80.3	19.7	15-30
0.600	2195	22345	89.1	10.9	8-22
0.075	2380	24725	98.6	1.4	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/Gradation/2014-15 23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant Oven Dry Wt (gm): 26345

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	1005	1005	3.8	96.2	95-100
22.4	5985	6990	26.5	73.5	60-80
11.2	5745	12735	48.3	51.7	40-60
4.75	4825	17560	66.7	33.3	25-40
2.36	3650	21210	80.5	19.5	15-30
0.600	2535	23745	90.1	9.9	8-22
0.075	2180	25925	98.4	1.6	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AIV/2014-15 23.07.2014

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of the Work	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	23.07.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	389	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	303	299	
4	Aggregate Impact value = percent fines	22.11	22.74	
	100* (W_2/W_1)%			22.42

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/Gradation/2014-15

23.07.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 23.07.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 26200

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	990	990	3.8	96.2	95-100
22.4	6230	7220	27.6	72.4	60-80
11.2	5845	13065	49.9	50.1	40-60
4.75	4555	17620	67.3	32.7	25-40
2.36	3485	21105	80.6	19.4	15-30
0.600	2165	23270	88.8	11.2	8-22
0.075	2375	25645	97.9	2.1	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AIV/2014-15 23.07.2014

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of the Work	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	23.07.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	392	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85.5	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	306.5	300	
4	Aggregate Impact value = percent fines	21.81	22.48	
	100* (W_2/W_1)%			22.15

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/S-T/2014-15 24.07.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of Work	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	24.07.2014

Result : Flakiness Index = **11.65%**

Elongation Index = **13.96%**

Result : Combined Flakiness & Elongation index 25.61%

Comments:

→ Maximum allowable Flakinee & Elongation Index for Wet Mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/S-T/2014-15 24.07.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of Work	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	24.07.2014

Result : Flakiness Index = **12.57%**

Elongation Index = **13.89%**

Result : Combined Flakiness & Elongation index 26.46%

Comments:

→ Maximum allowable Flakinee & Elongation Index for Wet Mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/S-T/2014-15 24.07.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	**Technical Manager - 2,** KRIDL, BBMP, Bangalore.
Name of Work	Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	24.07.2014

Result : Flakiness Index = **11.87%**

Elongation Index = **13.68%**

Result : Combined Flakiness & Elongation index 25.55%

Comments:

→ Maximum allowable Flakinee & Elongation Index for Wet Mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AL/2014-15

24.07.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 24.07.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AL/2014-15

24.07.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 24.07.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AL/2014-15

24.07.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

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Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 24.07.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AL/2014-15

24.07.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 24.07.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.07/WMM/AL/2014-15 24.07.2014

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager - 2,** KRIDL, BBMP, Bangalore.

Name of Work : Improvements of Roads in Bellikallappa Layout in Ward No.07, Byatarayanapura, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/217/2013-14 Dated: 30.12.2013

Date of Testing : 24.07.2014

Material : WMM

Sample Location : WMM Mix Plant

As per MORTH Table 400-11

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

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